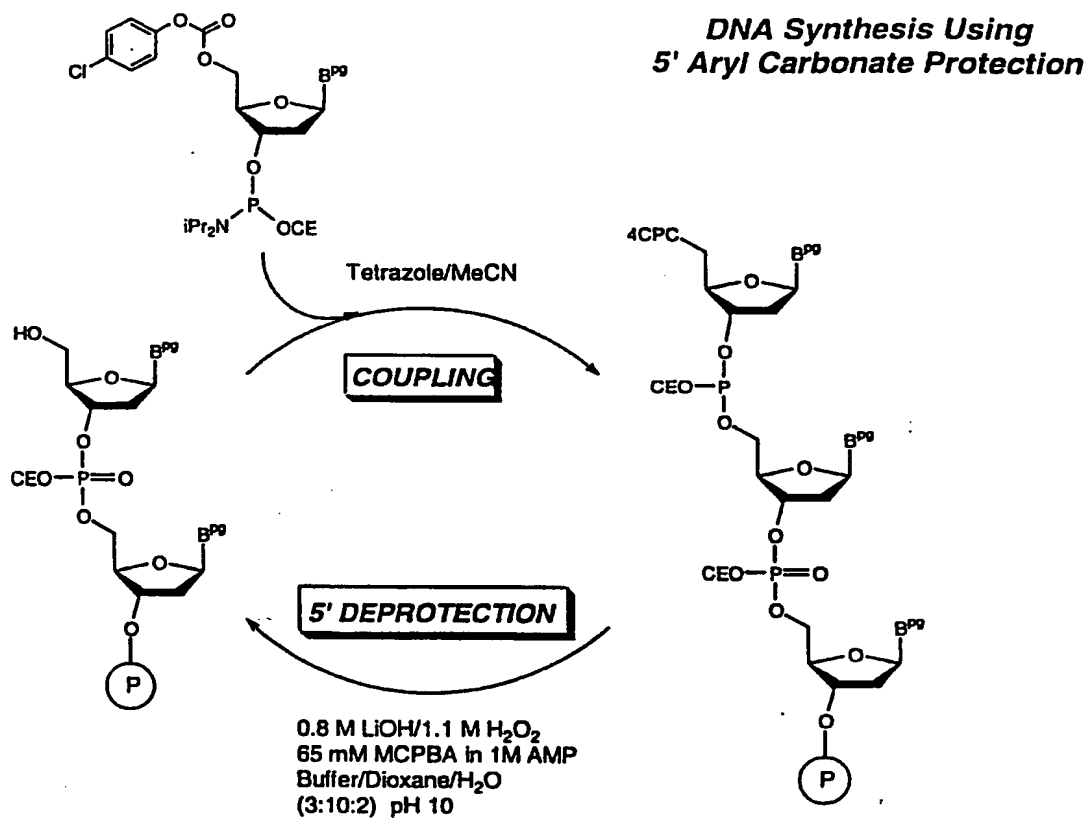
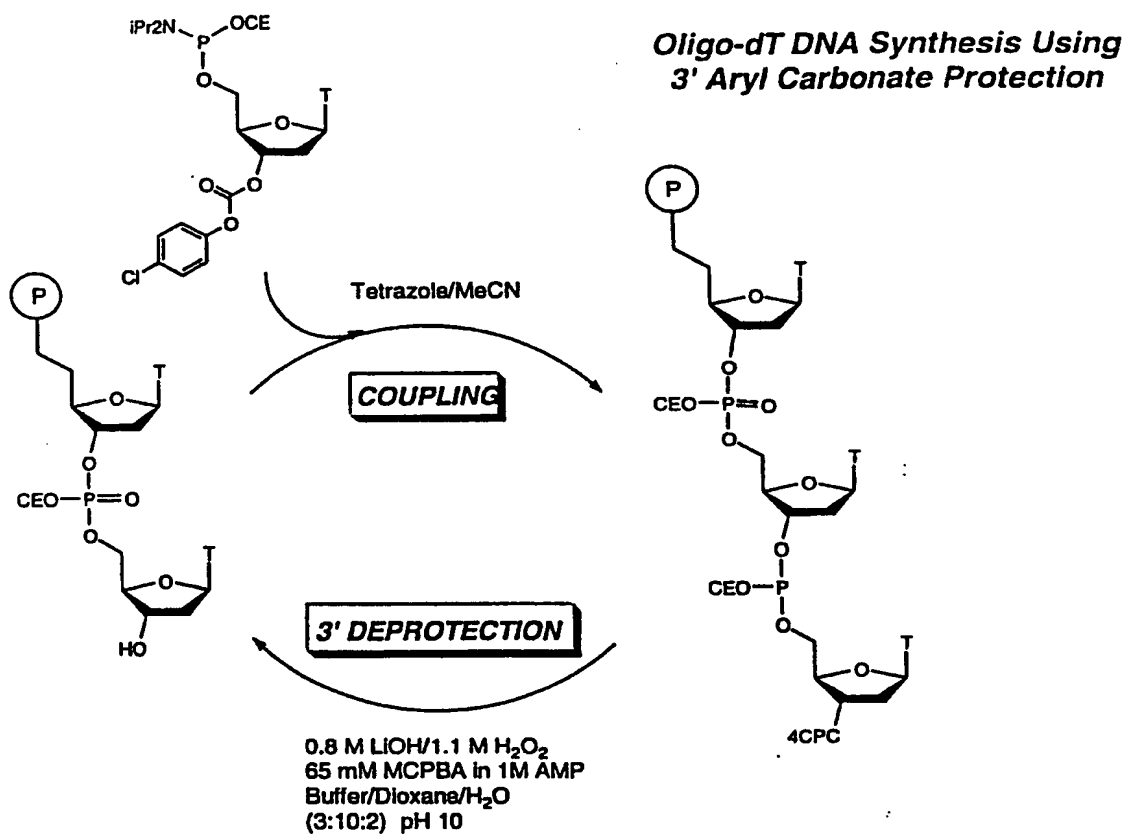


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No Capping or Oxidation Steps are required. Oxidation occurs simultaneously with 5' deprotection
 Final deprotection: NH₄OH/55°C off support, remove exocyclic PGs, and cyanoethyls

FIG. 1



No Capping or Oxidation Steps are required. Oxidation occurs simultaneously with 3' deprotection
 Final deprotection: NH₄OH/55°C off support, remove exocyclic PGs, and cyanoethyls

FIG. 2

Synthesis of 5'-4CPC-2'-Deoxynucleoside-3'-phosphoramidites

(dT is shown for illustrative purposes only - schemes using dG^{Ibu}, dA^{Bz}, and dC^{Bz} are directly analogous)

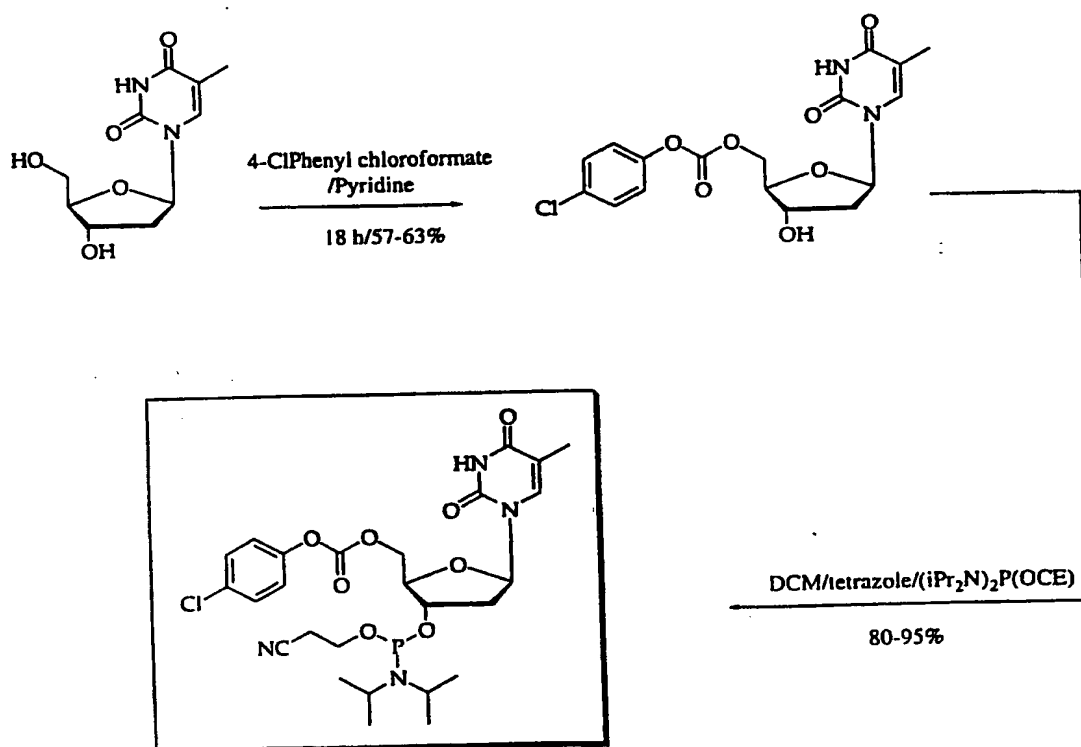


FIG. 3A

Synthesis of 3'-4CPC-2'-Deoxythymidine-5'-phosphoramidite

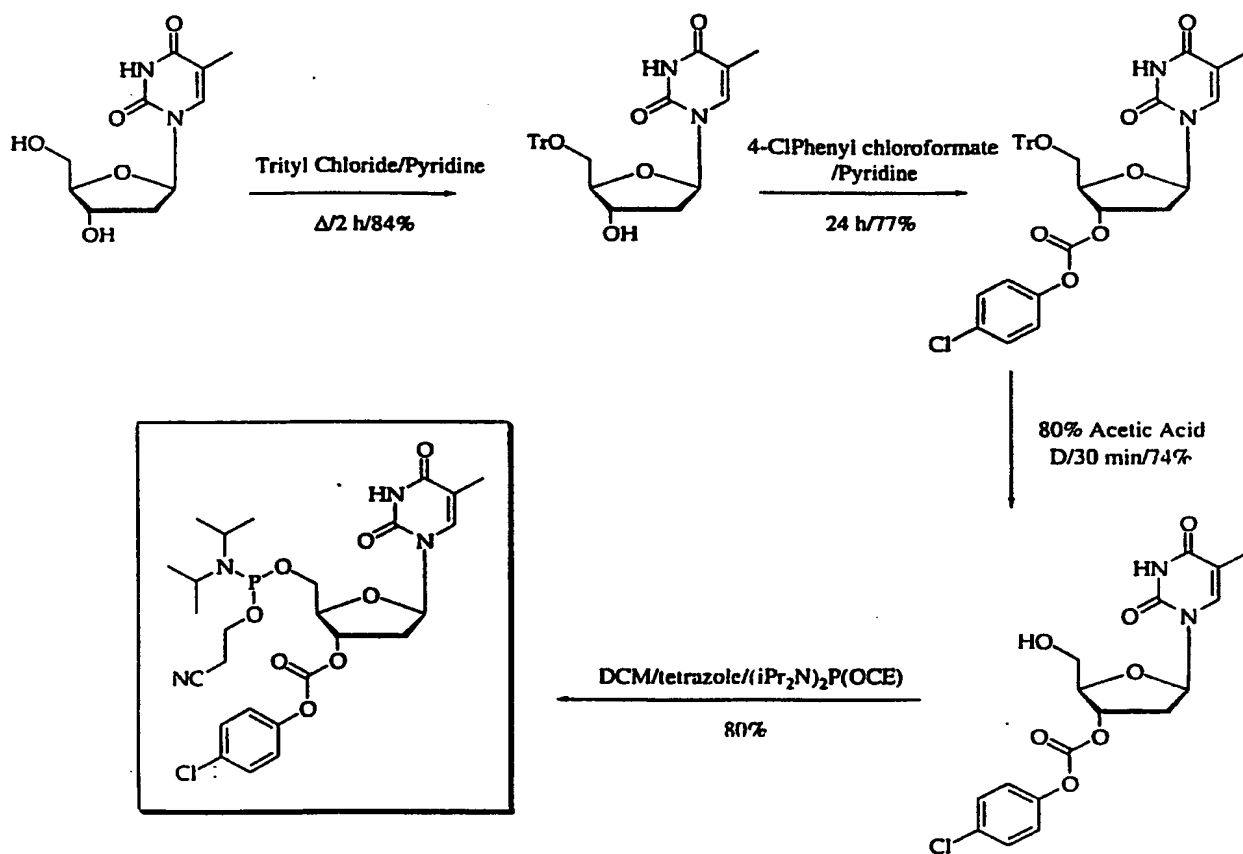


FIG. 3B